



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

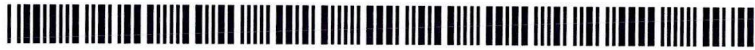
Tel (613) 632-5200
Fax 613 632-5246

RBW6305G16031-3G
Job Sheet 185887



Part No: RBW6305G16031-3G **Job Qty:** 3 ea

Part Name: Drive Quill Seal Housing Remover



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/6/18

Job Tracking No:

Due Date: 12/11/18

Created By: Patrick Lussier

Type: Stock

Description:

Note: DWG RBW6305G16031-3G REV 2 IPP REV A 18.02.15 NEW ISSUE FK VERIFY DP

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	3 pcs	12/11/18	12/11/18	0.00	0.00	Purchasing		JAN 18 2019
110	Packaging	3 pcs	12/11/18	12/11/18	0.00	0.00	Packaging2		JAN 18 2019
120	QC	3 pcs	12/11/18	12/11/18	0.00	0.00	QC6		38
130	Packaging	3 pcs	12/11/18	12/11/18	0.00	0.00	Packaging3		38
140	QC21-FG	3 Ea	12/11/18	12/11/18	0.00	0.00	QC21		JAN 21 2019

Part Op 100 - Issue PO to ARROW TECH MACHINE WORKS P.O. 041615 MANUFACTURE RBW6305G16031-3G AS PER
Descriptions: DWG -Certificate of conformity is required

ME+EC RH

POU 06.2018 3

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
RBW6305G16031-3GP	Drive Quill Seal Housing Remover	3 Ea (1 ea)	100-Purchasing	5145968

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	RBW6305G16031-3GP	3	0	0

Part Specifications

Specifications could not be found.

Plex 11/6/18 11:19 AM dart.Lussier.Patrick

CONTAINER NO.



Drive Quill Seal Housing Remover

PART NO: RBW6305G16031 – 3G

Serial No/Batch: S145969

Revision:

Operation:

Change No:

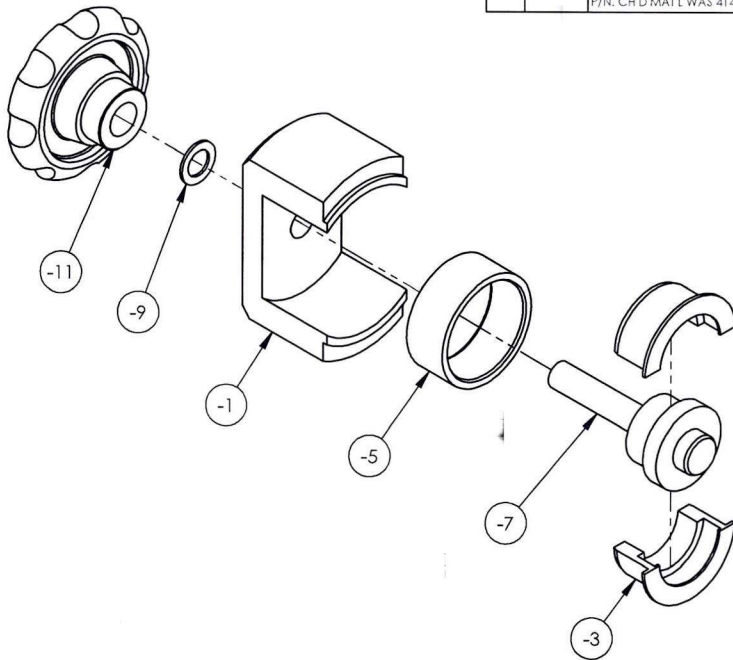
Packaging

Mfg Date: 01/18/19

Job No: 185887

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CH'D -1 ENGRAVE NOTES. ADDED -3 CUT LINE GAP TOLERANCE FROM .040. CH'D -5 GEO. TOL. FROM PERPENDICULAR.	5/6/2011	RJC	RW
2	17-0094	UPDATED TO NEW DRAFTING STANDARD. -1 CH'D DIM'S WAS 2.360 IS 2.36. WAS 1.930 IS 1.93. WAS 2.520 IS 2.52. CH'D ENGRAVE NOTE WAS ENGRAVE T/N "RBW6305G16031-3G" S/N. "MADE IN USA" IS ENGRAVE T/N. S/N. "MADE IN USA. WAS ENGRAVE T/N "RBW6305G16031-3G-1" IS ENGRAVE P/N. -3 CH'D DIM'S WAS 1.316 (x2) IS (2X 1.316). CH'D DIM'S WAS 1.141 IS 1.14. WAS BASIC .079 IS .079. WAS BASIC Ø1.784 IS Ø1.784. WAS BASIC .058 IS .058. CH'D POSITION OF GEOMETRIC TOLERANCE BLOCK FOR CLARITY [1.001]. CH'D ENGRAVE NOTE WAS ENGRAVE TOOL No. "RBW6305G16031-3" IS ENGRAVE P/N. -5 CH'D DIM WAS 1.061 IS 1.06. CH'D ENGRAVE NOTE WAS ENGRAVE TOOL No. "RBW6305G16031-3G-5" IS ENGRAVE P/N. -7 CH'D DIM WAS 4.250 IS 4.25. DELETED DIM .178. ADDED DIM 2.61. CH'D FINISH WAS CAD PLATE YELLOW QQ-P-416F. TYPE II, CLASS II IS ZINC PLATE ASTM B633 TYPE I SC2. CH'D ENGRAVE NOTE WAS ENGRAVE TOOL No. "RBW6305G16031-3G-7" IS ENGRAVE P/N. CH'D MAT'L WAS 4140 Q&T IS 4140/4142. ADDED HEAT TREAT RC 28-34.	4/21/2017	RJC	JAG



NOTE:

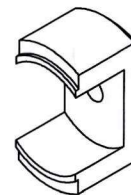
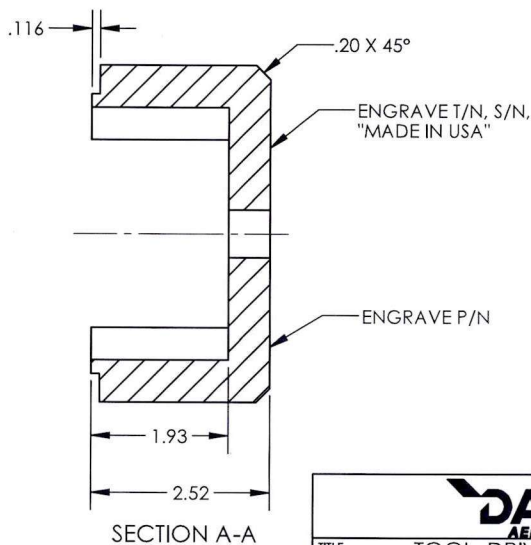
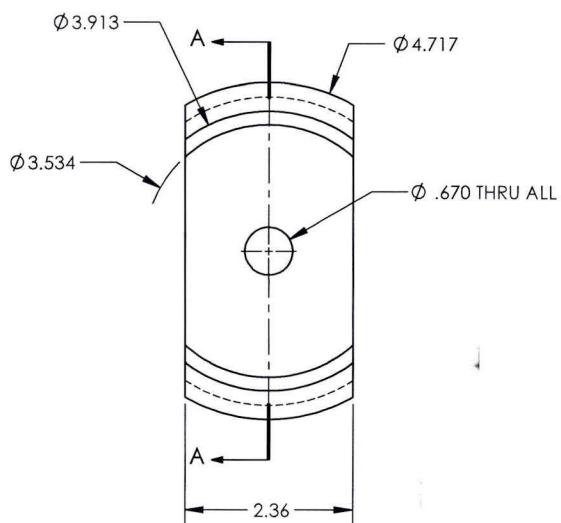
1. ALSO SOLD WITH KIT RBW6305G01531-3G, BOX TWO RBW6305G19731-3G.
2. REF. AGUSTA T/N 3G6305G16031.

DART AEROSPACE																									
TITLE TOOL, DRIVE QUILL SEAL HOUSING REMOVER																									
DWG NO. RBW6305G16031-3G	REV 2																								
<table border="1"> <tr> <td>MAT'L</td> <td>UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>HEAT TREAT</td> <td>DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>FINISH</td> <td>.XXX ± .005 FRACTIONS ± 1/8</td> </tr> <tr> <td></td> <td>.XX ± .01 ANGLES ± 6°</td> </tr> <tr> <td></td> <td>.X ± .1 SURFACES = 125</td> </tr> <tr> <td>SPEC</td> <td>1. BREAK ALL SHARP EDGES .015 x 45° OR .016R</td> </tr> <tr> <td>DRAWN BY: CLOUGH</td> <td>2. DIMENSIONAL LIMITS APPLY AFTER PLATING</td> </tr> <tr> <td>CHECKED: DD 05/01/2017</td> <td>3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</td> </tr> <tr> <td>OPPS APPR: AA 05/05/2017</td> <td>USED ON MODEL</td> </tr> <tr> <td>QA APPR: JL 05/10/2017</td> <td>AW139</td> </tr> <tr> <td>APPROVED: JAG 05/16/2017</td> <td></td> </tr> <tr> <td>SCALE 1:3</td> <td>DATE 2/4/2011 SHEET 1 OF 5</td> </tr> </table>		MAT'L	UNLESS OTHERWISE SPECIFIED	HEAT TREAT	DIMENSIONS ARE IN INCHES	FINISH	.XXX ± .005 FRACTIONS ± 1/8		.XX ± .01 ANGLES ± 6°		.X ± .1 SURFACES = 125	SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .016R	DRAWN BY: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	CHECKED: DD 05/01/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	OPPS APPR: AA 05/05/2017	USED ON MODEL	QA APPR: JL 05/10/2017	AW139	APPROVED: JAG 05/16/2017		SCALE 1:3	DATE 2/4/2011 SHEET 1 OF 5
MAT'L	UNLESS OTHERWISE SPECIFIED																								
HEAT TREAT	DIMENSIONS ARE IN INCHES																								
FINISH	.XXX ± .005 FRACTIONS ± 1/8																								
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DRAWN BY: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING																								
CHECKED: DD 05/01/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009																								
OPPS APPR: AA 05/05/2017	USED ON MODEL																								
QA APPR: JL 05/10/2017	AW139																								
APPROVED: JAG 05/16/2017																									
SCALE 1:3	DATE 2/4/2011 SHEET 1 OF 5																								

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	FRAME	6061		2
			-3	2	TWO HALF KEEPER	6061		3
			-5	1	LOCK RING	6061		4
			-7	1	PULLER	4140/4142		5
		B/O	-9	1	WASHER	ALUMINUM	Ø5/8 I.D. X Ø1 O.D. X .063 (MCMMASTER-CARR #92661A745)	1
		B/O	-11	1	6 LOBE KNOB	PLASTIC	5/8-11 X Ø3.90 O.D. X 1.73 (ESSENTIA COMPONENTS #KHIN-115)	1

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CH'D -1 ENGRAVE NOTES.	5/6/2011	RJC	RW
2	17-0094	-1 CH'D DIM'S WAS 2.360 IS 2.36, WAS 1.930 IS 1.93, WAS 2.520 IS 2.52. CH'D ENGRAVE NOTE WAS ENGRAVE T/N "RBW6305G16031-3G" S/N, "MADE IN USA" IS ENGRAVE T/N, S/N, "MADE IN USA, WAS ENGRAVE T/N "RBW6305G16031-3G-1" IS ENGRAVE P/N.	4/21/2017	RJC	JAG

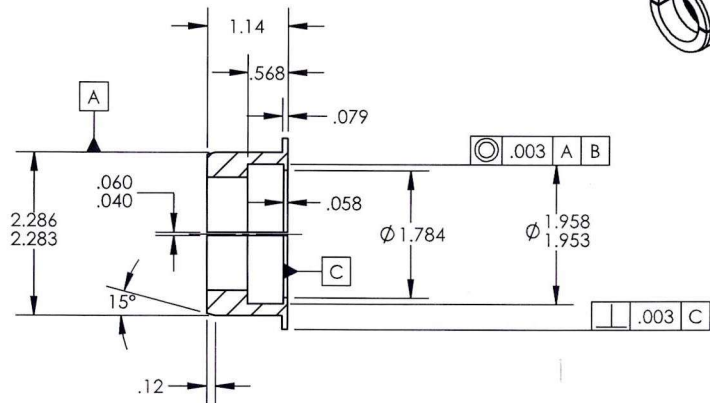
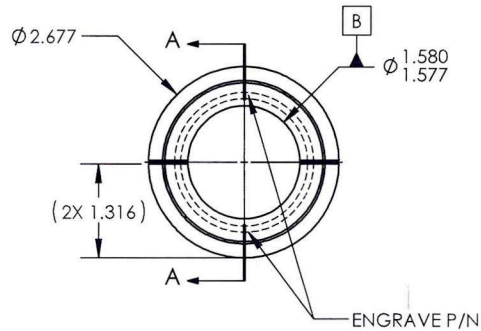


(-1)
FRAME

DART AEROSPACE	
TITLE TOOL, DRIVE QUILL SEAL HOUSING REMOVER	
DWG NO. RBW6305G16031-3G-1	REV 2
MAT'L 6051	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX ± .01 ANGLES ± 5°
DRAWN BY: CLOUGH	.X ± .1 SURFACES = 125/✓
CHECKED: DD 05/01/2017	1. BREAK ALL SHARP EDGES
OPPS APPR: AA 05/05/2017	.016 x 45° OR .016R
QA APPR: JL 05/10/2017	2. DIMENSIONAL LIMITS APPLY
APPROVED: JAG 05/16/2017	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 2/4/2011	USED ON MODEL
	AW139
	SHEET 2 OF 5

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		ADDED -3 CUT LINE GAP TOLERANCE FROM .040.	5/6/2011	RJC	RW
2	17-0094	-3 CH'D DIM'S WAS 1.316 (x2) IS (2X 1.316), WAS 1.141 IS 1.14, WAS BASIC .079 IS .079, WAS BASIC Ø1.784 IS Ø1.784, WAS BASIC .058 IS .058, CH'D POSITION OF GEOMETRIC TOLERANCE BLOCK FOR CLARITY $\begin{smallmatrix} \text{A} \\ \text{B} \end{smallmatrix}$ CH'D ENGRAVE NOTE WAS ENGRAVE TOOL NO. 'RBW6305G16031-3' IS ENGRAVE P/N.	4/21/2017	RJC	JAG



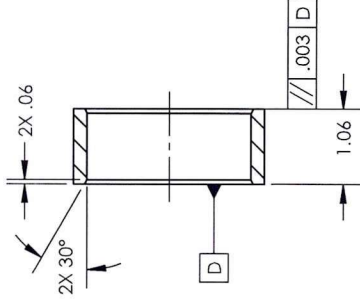
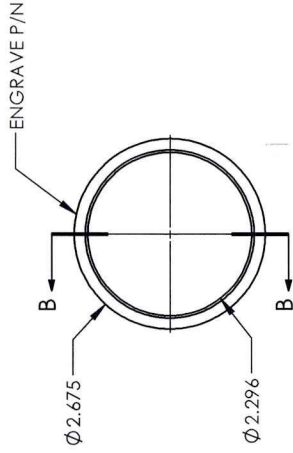
SECTION A-A

-3
TWO HALF KEEPER

DART AEROSPACE	
TITLE TOOL, DRIVE QUILL SEAL HOUSING REMOVER	
DWG NO. RBW6305G16031-3G-3	REV 2
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX ± .01 ANGLES ± 5°
DRAWN BY: CLOUGH	.X ± .1 SURFACES = 125/✓
CHECKED: DD 05/01/2017	1. BREAK ALL SHARP EDGES
OPPS APPR: AA 05/05/2017	.015 x 45° OR .015R
QA APPR: JL 05/10/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
APPROVED: JAG 05/16/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 1:2	DATE 2/4/2011
SHEET 3 OF 5	

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REV		ECR	REVISIONS		DATE	INITIAL	APPROVED
1			DESCRIPTION		5/6/2011	RJC	KW
2	174094		CHD -5 GEO. TOL. FROM PERPENDICULAR. -5 CHS DIA WAS 1.041 IS 1.06. CHD ENGRAVE NOTE WAS ENGRAVE TOOL I/O. RBW6305G16031-3G-5 IS ENGRAVE P/N.		4/21/2017	RJC	JAG



SECTION B-B



TITLE
TOOL, DRIVE QUILL SEAL
HOUSING REMOVER

DWG NO. RBW6305G16031-3G-5 REV 2

MAT'L 6061	UNLESS OTHERWISE SPECIFIED
FINISH	DIMENSIONS ARE IN INCHES
FINISH	XX ± .006 FRACTIONS
FINISH	XX ± .1 DECIMALS
FINISH	XX ± .1 ANGLES ± 1°
FINISH	XX ± .1 SURFACES = 125/
SPEC MIL-A-8625F, TYPE II, CLASS I	1. BREAK ALL SHARP EDGES
DRAWN BY: CLOUGH	2. .015 X .485 OR .018
CHECKED: DD 05/01/2017	3. AFTER PLATING
OPPS APPR: AA 05/05/2017	4. INTERPRET TOL AND TOL PER
QA APPR: JL 05/10/2017	ASME Y14.5-2009
APPROVED: JAG 05/16/2017	USED ON MODEL
SCALE 1:2	DATE 2/4/2011
	AWT139
	SHEET 4 OF 5

(5)

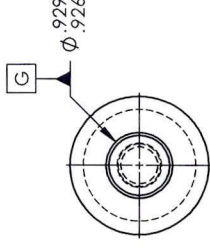
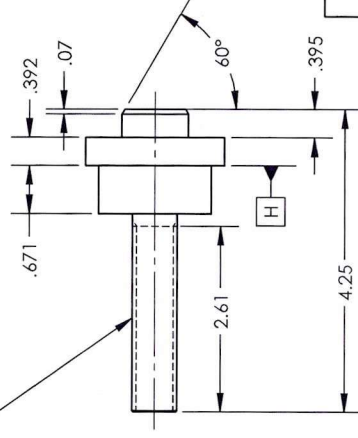
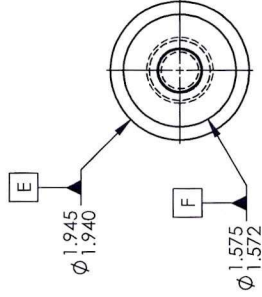
LOCK RING

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REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	17-0094	7 CHD DIM WAS 4.250 IS 4.25. DELETED DIM 1.78. ADDED DIM 2.61. CHD FINISH WAS CAD PLATE YELLOW. COQ-416F. TYPE II CLASS II IS ZINC PLATE ASTM B633 TYPE I SC2. CHD ENGRAVE NOTE WAS ENGRAVED. CHD ENGRAVE DIM 3.5-7 IS ENGRAVE FIN. CHD MATL WAS 4140 Q&T IS 4140/4142. ADDED HEAT TREAT RC 28-34.	4/21/2017	RJC	JAG



5/8-11 UNC -2A
 .003 E F G
 .003 H



DART
AEROSPACE

TOOL, DRIVE QUILL SEAL
HOUSING REMOVER

TITLE	REV
DWG NO. RBW6305G16031-3G-7	2
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO 16 DECIMALS TO 3 SURFACES = 125 .XXY ± .006 .XX ± .01 .X ± .1 .X ± .1	
MAT'L 4140/4142 HEAT TREAT RC 28-34 FINISH ZINC PLATE SPEC ASTM B633 TYPE I SC 2 DRAWN BY: CLOUGH CHECKED: DD 05/01/2017 OFFS APPR: AA 05/05/2017 QA APPR: JL 05/10/2017 APPROVED: JAG 05/16/2017 SCALE 1:2 DATE 2/4/2011	
1. BREAK ALL SHARP EDGES 2. .015 X 45° OR .016 3. INTERPRET DIM AND TOL PER ASME Y14.5-2009 USED ON MODEL AW139	
SHEET 5 OF 5	

7
PULLER



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO041615



Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO041615
PO Date: 11/6/18
Due Date: 1/18/19
Purchase Order Revision:
Revision Date:
Ship-To Contact: Phone:

Via: Ground
Pynt Terms: Net 60
Freight Terms:
Special Comments:

Revision

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	185887	RBW6305G16031-3GP			Drive Quill Seal Housing Remover As Per Dwg RBW6305G16031-3G Rev. 2	Firmed	-	1/18/19	3 Ea	0 Ea	3 Ea	\$1,750.00/Ea <i>2310.00</i>	\$5,250.00
								<i>3 X JAN 18 2019</i>					
2	185885	RBW6305G18631-3GP			Ecs Drive Quill Housing Remover As Per Dwg RBW6305G18631-3G Rev. 2	Firmed	-	1/18/19	3 Ea	0 Ea	3 Ea	\$2,500.00/Ea <i>3310.00</i>	\$7,500.00
								<i>3 X JAN 18 2019</i>					
Grand Total:												\$12,750.00	

Order Notes

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)
A012 CHEMICAL AND PHYSICAL TEST REPORTS
A016 PERSONNEL QUALIFICATION
A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/17/19 8:50 AM dart.Lussier.Patrick

Packing List

Bill Dart Aerospace Ltd.
To: 1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship Dart Aerospace Ltd.
To: 1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Shipment No: 24532
Shipment Date: 16-Jan-2019
Ship Via: Pick up at METEC
Order Number: 3189
Order Date: 11/15/18

Customer Code: DART
Phone: (613) 632-9577
PO Number: PO041615 ✓
Terms: Net 60 Days

----- Quantity -----								Job	
<u>Item</u>	<u>Open</u>	<u>Shipped</u>	<u>B/O</u>	<u>Canceled</u>	<u>Unit</u>	<u>Description</u>	<u>Revision</u>	<u>Number</u>	
1	3	3 ✓	0	0	EA	DART-RBW6305G16031-3GP Tool, Drive Quill Seal Housing Remover ✓	2	3189-01	DAS 38 9-86
2	3	3 ✓	0	0	EA	DART-RBW6305G18631-3GP Tool, ECS Drive Quill Seal Housing Remover ✓		3189-02	

The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.

Received In Good Order By _____



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

Quantity	Part Number	Part Name	Dwg Rev.#	P.O. Number
3 ✓	DART-RBW6305G16031- 3GP ✓	Tool, Drive Quill Seal Housing Remover	2	41615 ✓
3 ✓	DART-RBW6305G18631- 3GP ✓	Tool, ECS Drive Quill Seal Housing Remover	2	41615 ✓

DAS
38
9-89

MATERIAL: supplied by METEC

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

George Theoret

Vankleek Hill, January 16, 2019